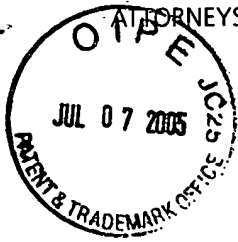


09/997272

COFC / # / CC

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\*Practice Limited to  
Federal Agencies

July 7, 2005

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Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Attn: Certificate of Correction Branch

Re: U.S. Utility Patent No. 6,882,042 B2; Issued: April 19, 2005  
For: **Thermally And Electrically Enhanced Ball Grid Array Packaging**  
Inventors: Zhao *et al.*  
Our Ref: 1875.2200001

Sir:

Certificate

JUL 13 2005

Transmitted herewith for appropriate action are the following documents: of Correction

1. Credit Card Payment Form (PTO-2038) in the amount of \$100.00 to cover the \$100.00 Certificate of Correction Fee;
2. Request for Certificate of Correction Under 37 C.F.R. §§ 1.322 and 1.323;
3. Certificate of Correction (Form PTO/SB/44);
4. Exhibit 1 - a copy of page "1 of 20" of the Information Disclosure Statement, filed July 29, 2002, initialed by the Examiner and accompanying the April 13, 2004 Office Action;
5. Exhibit 2 - copies of pages "1 of 2" and "2 of 2" of the Information Disclosure Statement, filed August 20, 2003, initialed by the Examiner and accompanying the November 3, 2003 Office Action; and
6. One return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

07/08/2005 LWONDIM1 00000037 6882042

01 FC:1811

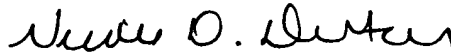
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Commissioner for Patents  
July 7, 2005  
Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

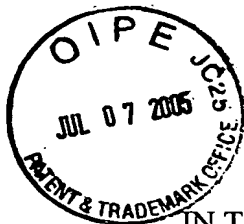
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Nicole D. Dretar  
Attorney for Patentees  
Registration No. 54,076

NDD/sjc  
Enclosures

412344\_1



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent of:

Zhao *et al.*

Patent. No.: 6,882,042 B2

Issued: April 19, 2005

For: **Thermally And Electrically  
Enhanced Ball Grid Array  
Packaging**

Confirmation No.: 2600

Art Unit: 2829

Examiner: Zarneke, David A.

Atty. Docket: 1875.2200001

**Request for Certificate of Correction  
Under 37 C.F.R. § 1.322 and 1.323**

*Attn: Certificate of Correction Branch*

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

It is hereby requested that a Certificate of Correction under 37 C.F.R. §§ 1.322 and 1.323 be issued for the above-captioned United States Patent. This Certificate of Correction is being requested due to mistakes which appear in the printed patent. These mistakes were made by both the U.S. Patent and Trademark Office and by Applicants. The mistakes made by Applicants are of a clerical or typographical nature, or of a minor character. Patentees submit that correction of these errors does not introduce new matter.

Specifically, the printed patent contains the following errors for which a Certificate of Correction is respectfully requested:

On the front page, in the Inventors Section (75), please delete "Reaz-ur Rahman Khan" and insert - - Reza-ur Rahman Khan; - - This correction is requested to correct a typographical error made by Applicants.

On the front page, in the References Cited Section (56), under U.S. Patent Documents, please insert:

-- 09/984,259 10/2001  
09/742,366 12/2000 --.

A copy of page "1 of 20" of the Information Disclosure Statement, filed July 29, 2002, initialed by the Examiner and accompanying the April 13, 2004 Office Action, is enclosed in support of this correction as Exhibit 1.

On the front page, in the References Cited Section (56), under U.S. Patent Documents, please insert:

-- 10/284,340 10/2002  
10/201,891 07/2002  
10/200,336 07/2002  
10/197,438 07/2002  
10/201,309 07/2002  
10/201,893 07/2002  
10/200,255 07/2002  
10/284,312 10/2002  
10/253,600 09/2002  
10/284,371 10/2002  
10/284,349 10/2002  
10/284,166 10/2002  
10/284,366 10/2002  
10/101,751 03/2002 --

Copies of pages "1 of 2" and "2 of 2" of the Information Disclosure Statement, filed August 20, 2003, initialed by the Examiner and accompanying the November 3, 2003 Office Action, are enclosed in support of this correction as Exhibit 2.

**Remarks**

The above-noted corrections do not involve such changes in the patent as would constitute new matter or would require reexamination.

A completed Form PTO/SB/44 accompanies this request, with the above-noted corrections printed thereon. Accordingly, a Certificate of Correction is believed proper and issuance thereof is respectfully requested.

This request is accompanied by payment of the fee set forth in 37 C.F.R. § 1.20(a). Fee payment is provided in the attached Credit Card Payment Form (PTO-2038). The Commissioner is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Nicole D. Dretar  
Attorney for Patentees  
Registration No. 54,076

Date: 07-07-2005

1100 New York Avenue, N.W.  
Washington, D.C. 20005-3934  
(202) 371-2600

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**Page 1 of 1

PATENT NO: 6,882,042 B2

DATED: April 19, 2005

INVENTOR(S): Zhao *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

On the front page, in the Inventors section (75), delete "Reaz-ur Rahman Khan" and insert --Reza-ur Rahman Khan--.

On the front page, in the References Cited Section (56), under U.S. Patent Documents, please insert:

-- 09/984,259 10/2001  
09/742,366 12/2000  
10/284,340 10/2002  
10/201,891 07/2002  
10/200,336 07/2002  
10/197,438 07/2002  
10/201,309 07/2002  
10/201,893 07/2002  
10/200,255 07/2002  
10/284,312 10/2002  
10/253,600 09/2002  
10/284,371 10/2002  
10/284,349 10/2002  
10/284,166 10/2002  
10/284,366 10/2002  
10/101,751 03/2002 --

**MAILING ADDRESS OF SENDER (Please do not use customer number below):**

1100 New York Avenue, NW  
Washington DC 20005-3934  
Atty. Dkt. No. 1875.2200001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

FORM PTO-1449

JUL 29 2002

INFORMATION DISCLOSURE STATEMENT

U.S. PATENT &amp; TRADEMARK OFFICE

ATTY. DOCKET NO.  
1875.2200001APPLICATION NO.  
09/997,272APPLICANT  
Zhao et al.FILING DATE  
November 30, 2001GROUP  
2811

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>AB</i>	AA1	5,397,921	03/1995	Kamezos	257	779	
	AB1	5,474,957	12/1995	Urushima	437	209	
	AC1	5,534,467	07/1996	Rostoker	437	209	
	AD1	09/984,259	—	Zhao et al.	—	—	10/29/2001
	AE1	09/742,366	—	Khan et al.	—	—	12/22/2000
	AF1						
	AG1						
	AH1						
	AI1						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>AB</i>	AJ1	EP 0 504 411 B1	06/1998	EPO	H01L	23/04	Yes No
	AK1						Yes No
	AL1						Yes No
	AM1						Yes No

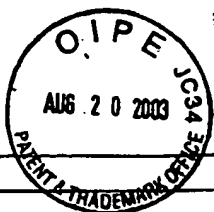
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>AL</i>	AN	1	Ahn, S.H. and Kwon, Y.S., "Popcorn Phenomena in a Ball Grid Array Package", IEEE Transactions on Components, Packaging, and Manufacturing Technology Part B: Advanced Packaging, IEEE, August 1995, Vol. 18, No. 3, pp. 491-96.
<i>AL</i>	AO	1	Amkor Electronics, "Amkor BGA Packaging: Taking The World By Storm", Electronic Packaging & Production, Cahners Publishing Company, May 1994, page unknown.
<i>AL</i>	AP	1	Anderson, L. and Trabucco, B., "Solder Attachment Analysis of Plastic BGA Modules", Surface Mount International Conference, Surface Mount International, August 28-September 1, 1994, San Jose, California, pp. 189-194.
<i>AL</i>	AQ	1	Andrews, M., "Trends in Ball Grid Array Technology," Ball Grid Array National Symposium, March 29-30, 1995, Dallas, Texas, 10 pages.
<i>AL</i>	AR	1	Attarwala, A.I. Dr. and Stierman, R., "Failure Mode Analysis of a 540 Pin Plastic Ball Grid Array", Surface Mount International Conference, Surface Mount International, August 28-September 1, 1994, San Jose, California, pp. 252-257.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



Page 1 of 2

FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
1875.2200001APPLICATION NO.  
09/997,272APPLICANT  
Zhao et al.FILING DATE  
November 30, 2001GROUP  
2827

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
OK	AA1	10/284,340		Zhao et al.			10/31/2002
	AB1	10/201,891	12/12/2002	Zhao et al.			7/25/2002
	AC1	10/200,336	12/12/2002	Khan et al.			7/23/2002
	AD1	10/197,438	12/12/2002	Zhao et al.			7/18/2002
	AE1	10/201,309	12/19/2002	Khan et al.			7/24/2002
	AF1	10/201,893	12/12/2002	Zhao et al.			7/25/2002
	AG1	10/200,255	12/19/2002	Zhao et al.			7/23/2002
	AH1	10/284,312	3/27/2003	Zhao et al.			10/31/2002
	AI1	10/253,600		Zhong et al.			9/25/2002
	AJ1	10/284,371	8/7/2003	Khan et al.			10/31/2002
OK	AK1	10/284,349	8/7/2003	Khan et al.			10/31/2002

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1						Yes No
	AM1						Yes No
	AN1						Yes No
	AO1						Yes No
	AP1						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	1	
	AS	1	
	AT	1	

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10/13/03

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FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
1875.2200001APPLICATION NO.  
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
OK	AA2	10/284,166	8/7/2003	Zhao et al.			10/31/2002
OK	AB2	10/284,366	8/7/2003	Zhao et al.			10/31/2002
OK	AC2	10/101,751		Zhao et al.			3/21/2002
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	AI2						
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	AK2						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL2						Yes No
	AM2						Yes No
	AN2						Yes No
	AO2						Yes No
	AP2						Yes No

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	AS	2	
	AT	2	

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